SHUMSKIY, K.D., fel'dsher (Kiyev)

Kiev Medical and Obstetrical School; on the 120th anniversary of its founding. Fel'd.i akush. 27 no.7:38-42 Jl '62. (MIRA 15:9) (KIEV-MEDICAL COLLEGES)

SHUMSKIY, K.D., felldsher (Kiyev)

Poisoning of children with the seeds of poisonous plants. Fel'd. i akush. 28 no.8840-42 Ag'63 (MIRA 16812)

SHUMSKIY, K. P., Doc Tech Sci -- (diss) "Condensation of Water Vapor in Rarefied *** (Condensation into a Solid State)." Mos, 1958. 39 pp (Min Higher Ed USSR. Mos Building Chem Machine Constr), 200 copies (KL 40-58,114)

19

-SHUMSKIY, K.P. [Shumski; K.P.], kand.fiz.-mat.nauk

Rate of motion of paragaseous mixtures in sublimation condensers.

Vestsi AN BSSR Ser. fiz.-tekh. nav. no.3:5-10 '58. (MIRA 11:10)

(Water vapor) (Condensation)

POMERANTSEV, A.A., prof., doktor fiz.-mat. nauk; SHUMSKIY, K.P., kand. fiz.-mat. nauk.

Theory of nozzles for high vacuum steam jet pumps. Sbor. st.
NIIKHIMMASH no.22:81-91 58.
(Vacuum pumps)

SHUMSKIY, K.P., kand.fiz.-mat.nauk

Mechanism of the condensation of water vapor to a solid state.

Shor'st.NIIKHIMMASH no.24:3-41 '58. (MIRA 12:1)

(Water vapor) (Condensation)

SHUMSKIY, K.P., kand.fiz.-mat.nauk

Thermophysical characteristics of vapor condensation in a rarefied medium. Shor.st.NIIKHIMMASH no.24:42-60 '58. (MIRA 12:1)

(Water vapor) (Vacuum) (Condensation)

SHUMSKIY, K.P.

Particular aspects of the method of studying the process of condensing vapor to a solid in a vacuum. Sbor.st.NIIKHIMMASH no.24:61-70 '58. (Water vapor)

507/64-59-3-15/24

14(1) AUTHOR: Shumskiy, K. P., Candidate of Physico-mathematical Sciences

TITLE:

Investigation of the Working Process in the Condensers of Sublimation Plants (Issledovaniye rabochego protsessa v

kondensatorakh sublimatsionnykh ustanovok)

PERIODICAL:

Khimicheskaya promyshlennost, 1959, Nr 3, pp 70-73 (USSR)

ABSTRACT:

At present the possibilities for an industrial application of sublimation-drying methods (SD) for fine-disperse dyestuffs (for color films) are examined. The (SD) is carried out in dryers closed hermetically, at a pressure below triple-point (4.58 mm Hg) by means of evaporating the solidified liquid at temperatures below melting point. Since the condensation of water steam (WS) has been investigated little, experiments

were made for finding a method for the computation of sublimation condensers. The (WS) condensation with the development of ice was examined in pure (WS), and with air or other not condensed gases (H2, He, CO2, CH4, CF2Cl2) under dynamic

and static conditions. Among other things it could be observed that the condensation rate in the dynamic system increases

Card 1/2

Investigation of the Working Process in the Condensers of Sublimation Plants

SOV/64-59-3-15/24

with the steam pressure on the condenser inlet, much quicker than it does in the static system. The molecules of the uncondensed gases partly rebound on the ice surface and partly they are absorbed. The movement of the rebounding molecules facilitates the (WS) condensation. The construction choice of a condenser will depend on the shifting rate of the (WS) from the dryer to the cooling surface. Due to the experimental results and experience of several works, this can be expressed by means of the equation

f = a c (5), (a - parameter, depending on the property of the steam and on the construction of the condenser, P_c-value equal to the partial steam pressure in the dryer in mm Hg). The ratio between the duration of the work and the diameter is of great importance for condensers (Fig 4, function of the partial steam pressure of this ratio). There are 4 figures and 3 references, 2 of which are Soviet.

ASSOCIATION:

NIIKhIMMASh (NIIKhIMMASh)

Card 2/2

SHUMSKIY, K.P., kand. fiz.-matem.nauk

Theoretical principles of the method for calculating vacuum condensers. Khim. mash. 3 no.3:11-16 My-Je '59. (MIRA 12:12) (Condensers (Vapors and gases))

SHUMSKIY, K. P.

"On the Theory of Phase Conversions in Vacuum."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

PHASE I BOOK EXPLOITATION SOV/5844

Shumskiy, K. P.

- Vakuumnyye kondensatory khimicheskogo mashinostroyeniya (Vacuum Condensers in the Chemical-Machine Industry) Moscow, Mashgiz, 1961. 334 p. Errata slip inserted. 6500 copies printed.
- Reviewer: N. I. Plekhan, Engineer; Ed.: I. I. Salamatov, Engineer; Ed. of Publishing House: N. P. Yevstaf'yeva; Tech. Ed.: A. F. Uvarova; Managing Ed. for Literature on Chemical and Textile Machine Building: V. I. Rybakova, Engineer.
- FURFOSE: This book is intended for technical personnel and scientific workers in industry. It may also be useful to students specializing in chemical-machine design.
- COVERAGE: Problems in the vacuum condensation of water vapor directly into the solid state are discussed. The constructions of basic types of units for this process are analyzed. Systematized data are included on adsorption and condensation of

Card 1/1

在1977年,他们就是在1985年,1980年的1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,19

Vacuum Condensers in the (Cont.)

SOV/5844

water vapor on charged particles and on positively active molecules. A method for designing sublimation condensers for the chemical industry has been developed which makes possible the construction of highly productive units. The generalized experimental data included in the book were gathered mainly at the Nauchno-issledovatel'skiy i konstruktorskiy institut khimicheskogo mashinostroyeniya (NIIKhIMMASh)—All-Union Design and Scientific Research Institute of Chemical Maihinery—at the "Kompressor" Plant, and at the Sumskoy zavod imeni Frunze—Sumy plantimeni Frunze. No personalities are mentioned. There are 105 references: 71 Soviet, 23 English, 9 German, 1 French, and 1 unidentified.

TABLE OF CONTENTS:

Introduction

3

Card 2/7

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220005-1"

s/184/61/000/005/003/009 DO41/D113

AUTHOR:

Shumskiy, K.P., Candidate of Physical and Mathematical

Sciences

TITLE:

New principle of building equipment for the volumetric conden-

sation of liquid vapors in a vacuum

PERIODICAL: Khimicheskoye mashimostroyeniye, no. 5, 1961, 29-33

TEXT: The article deals with investigations conducted at NIIKhIMMASh on the condensation of water vapor into ice in the presence of inert gases. study was carried out in order to develop a design and a calculation method for vacuum condensers. The experiments revealed that the vapor condensation process of a vapor-gas mixture below the triple point is characterized by the energy loss of the gas molecules on contact with the solid cocled surface. The gas molecules are reflected from the cooled surface with insufficient energy because so-called non-elastic reflection takes place. The more atoms the molecule contains, the easier it is for the molecule to re-

Card 1/3

SHUMSKIY, K.P.

Condensation of water vapor to the solid state in a rarefied medium. Zhur.tekh.fiz. 31 no.8:991-1000 Ag '61. (MIRA 14:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorskiy institut khimicheskogo mashinostroyeniya, Moskva. (Condensation)

HELEVTSEV, G.A.; GAVRILENKO, N.G.; GRINENKO, I.M.; KOROSTIK, P.O.;

KOTEL'NIKOV, I.V.; KRASAVTSEV, N.I., kand. tekhn. nauk;

MISHCHENKO, N.M.; POPOV, H.N., kand. tekhn. nauk; SEMIK, I.P.,

kand. tekhn. nauk; TOTSKIY, G.P., kand. tekhn. nauk; SHESTOPALOV,

kand. tekhn. nauk; TOTSKIY, G.P., kand. tekhn. nauk; SHESTOPALOV,

I.I.; Prinimali uchastiye: SOLDATKIN, A.I.; SOLOMKO, V.P.;

SOLOMATIN, A.M.; BOLOTSKIY, D.V.; ZAPOROZHETS, N.P.;

SOLOMATIN, A.M.; SHVETS, N.Kh.; LIKHUNIN, S.D.; SHUMSKIY, L.B.;

BESSCHASTNYY, A.Ve.; SHVETS, N.Kh.; CELYUKH, B.A.

Desulfuration of pig iron in a fast-revolving and contimuous drum. Met. i gernorud. prom. no.4:3-5 Jl-Ag 165. (MIRA 18:10)

以为中华公司,建筑是大学的大学,在全部的特殊。

EWT(1)/EEC(k)-2 SOURCE CODE: UR/0185/65/010/010/1119/1122 13123-66 ACC NR: AP5026918 AUTHORS: Vlokh, O. H. (Vlokh, G.); Lutsiv-Shums kyy, L. P. (Lutsiv Shumskiy, L. F.) ORG: L'vov Order of Lenin State University im. I. Franko (L'vivs'kyy ordena Lenina der-huniversytet) The dispersion of the rt coefficient of the true electro-TITLE: optical effect in NH H2PO crystals Ukrayins kiy fizychnyy zhurnal, v. 10, no. 10, 1965, 1119-1122 SOURCE: TOPIC TAGS: ammonium phosphate, electrooptic effect, piezoelectric crystal, photoelasticity ABSTRACT: A static method with application of mechanical stresses was used to obtain the dispersion of the plezo-optical stress coefficient The and the reconstitution of the true electro-optical effect in the visible spectrum. An UM-2 monochromator served as the source of mono-optical distribution of the true electro-optical effect in the visible spectrum. chromatic light; the detector was a FEU-29 photomultiplier with a M-95 microammeter. The measurements were conducted at room temperature. special device provided the uniform compression of the ADP crystal along the [110] direction of a sample cut in the form of a right prism

CIA-RDP86-00513R001550220005-1 "APPROVED FOR RELEASE: 08/23/2000

L 13123-66

AP5026918 ACC NR:

13.243 mm along the [110], 17.48 mm along the [110], and 11.093 mm along the [001]. The values of rea at a wavelength of 556 mu obtained by the static method are in good agreement with those obtained by the dynamic method at frequencies somewhat higher than the fundamental resonance frequency. The agreement of these results confirms the re-Hability of both methods and the phenomenological connection of the electro-optical properties of crystals with their piezo-electric and photo-elastic properties. Orig. art. has: 4 figures and 3 formulas.

SUBM DATE: 28Nov64/ NR REF SOV: 003/ OTH REF: 003 SUB CODE: 20/

2/2 MW

CIA-RDP86-00513R001550220005-1 "APPROVED FOR RELEASE: 08/23/2000

SHUMSKIY, M.I., starshiy elektromekhanik

Ripolar operation of a direct control relay. Avtom., telem.i (MIRA 15:3) sviaz: 6 no.1:25 Ja :62.

1. Novomoskovskaya distantsiya signalizatsii i svyazi Moskovskoy (Railroads--Electric equipment) dorogi.

L 18238-65 EWT(m)/EWP(w) AFWL/SSD EM

ACCESSION NR: AP4048302 S/0146/64/007/005/0164/0170

AUTHOR: Shumskiy, M. P.

TITLE: Calculation of manometer springs , 1

SOURCE: IVUZ. Priborostroyeniye, v. 7, no. 5, 1964, 164-170

TOPIC TAGS: Bourdon tube, manometer, manometer spring

ABSTRACT: An approximate general solution of the problem of the stresses and travel of a manometer spring (Bourdon tube) is presented. The solution differs from the well-known Ritz solution in that no wall-thickness limitation is imposed and the stresses are determined with the same accuracy as the spring-end travel. The well-known energy solution of the problem of the relative unbending angle of a thin-walled tube is extended over tubes with thicker walls. The new method yields results close to those of W. Wuest's method (VDI Forschungsheft 489, v. 28, no. B, 1962) applied to thin-walled flat-oval-section tubes. Orig. art. has:

Card 1/2

18238-65 CESSION NR: AP40483	02		
	nd 1 table. politekhnicheskiy institut (To	msk Polytechnic Institute	
	politeknii (nebr.)	ENGL: 00	
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EWT(d)/FSS-2/EWT(1)/EWP(m)/EEC(k)-2L 04443-67

ACC NR: AP6022060

SOURCE CODE: UR/0146/66/009/003/0089/0092 66

AUTHOR: Shumskiy, M. P.; Ivanov, Yu. Ye.

ORG: Tomsk Polytechnic Institute (Tomskiy politekhnicheskiy institut)

TITLE: Selection of gyromotor rotor shape to assure minimum aerodynamic drag

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 3, 1966, 89-92

TOPIC TAGS: gyroscope system, rotor, aerodynamic drag moment, pneumatic device

ABSTRACT: The problem of reducing the moment of aerodynamic drag is considered under the condition that the parameters determining accuracy be preserved. Hence the aerodynamically optimum rotor is sought from the set of rotors having a given moment of inertia and size. The problem of finding a function passing through two given points and yielding a minimum functional is solved making use of the Euler formula. On the basis of the derived formula, optimum profiles passing through one of the given points at a given angle may be plotted graphically. The problem of finding the optimum form of a uniform rotor is then solved in a similar manner and yields a first-order equation. The optimum form of transition from the cylindrical opening to the end face of the rotor, and the optimum form of the diaphragm of a pneumatic gyromotor are considered as examples. Three variations of refinement of aerodynamic properties of a rotor are shown graphically, one determined from the derived formulas, two formed by straight bevels at 45 and 15°. It is concluded that when it is important to reduce aero-

Card 1/2

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dimo	mie drag	g the straight nulas and 2 fi	bevel can be replaced by a gures.	rounded one	of optimum form.	Orig.	art.	
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KOMOV. L.V., inzhener (Syzran'); SHUMSKIY, M.Yu., inzhener (Syzran').

Apparatus for automatic pipe welding in sections. Stroi.

pred.neft.prom. 1 no.10:26-27 D '56. (MLRA 10:2)

(Electric welding) (Petroleum--Pipelines)

SHUMSKIY, N., inzh.

Get the equipment well prepared at grain receiving stations of eastern Kazakhstan. Muk.-elev.prom. 26 no.8:3 Ag '60. (MIRA 13:8)

1. Upravleniye khleboproduktov Vostochno-Kazakhstanskoy oblasti.
(Kazakhstan--Grain elevators)
(Grain--Handling machinery)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220005-1"

SHUMSKIY, N., inzh.-dispecther

We prepared the seed grain well and on time. Muk.elev.prom. 27 no.5:28-29 My '61. (MIRA 14:6)

1. Vostochno-Kazakhstanskoye upravleniye khleboproduktov. (Grain)

Ma are well prepared to receive the new grain. Link.-elev.
proces. 27 re.9:27 S tol.

(Granaries)

(Granaries)

SHUMSKIY, N. (Ust: Kamenogorsk)

Our assumed obligations in preparing the equipment have been fulfilled. Muk.-elev. prom. 29 no.9:27 S '63.

(MIRA 17:1)

SHUMSKIY, N. (Ust'-Kamenogorsk)

Pay due attention to the training of specialists. Muk.-elev. prom. 29 no.7:28 Jl '63. (MIRA 17:1)

(MLRA 7:7)

MORCZOV, V.M.; SHUMSKIY, N.G.

"La raison," no.6 (July), 1953. Paris; journal of scientific psychopathology. Reviewed by V.M.Morozov, N.G. Shumskii. Zhur.

بالمانا وكسيتيكيني

nevr. i psikh. 54 no.6:599-602 Je 154. (PSYCHOLOGY, PATHOLOGICAL—PERIODICALS)

SHUMSKIY, N.G.

"La Raison" journal of scientific psychopathology, no.7: (Dec.) 1953. no.8 (May) 1954. Paris. Reviewed by N.G.Shumskiy. Zhur. nevr. i psikh.55 no.10:797- *55. (MLRA 8:11) (PSYCHOLOGY, PATHOLOGICAL-PERIODICALS)

MOROZOV, V.M.; SHUMSKIY, N.G.

Review of "La Raison, Cahiers de psychopathologie scientifique," no.2-5. [Journal of Scientific Psychopathology, No.2-5, Paris] Henri Wallou, chief editor; Louis de Guillant, responsible editor. Zhur.nevr.i psikh. 54 no.1:55-63 Ja '54. (MLRA 7:1) (Psychology, Pathological--Periodicals)

SHUMSKIY, N.G.

Clinical aspects of paraphrenic (delusional paranoid) schizophrenia
[with summary in French]. Zhur. nevr. i psikh. 58 no.4:462-1770 (MRA 11:5)
1918

1. Kafedra psikhiatrii (zav. - prof. A.V. Snezhnevskiy) Tsentral'nogo
instituta usovershenstvovaniya vrachey, Moskva.

(SCHIZOPHRENIA, psychol.

paraphrenic delusional paranoid, psychodynamics (Rus))

(PARANOIA, psychol.

psychodynamics (Rus))

SHUMSKIY, N. G., Candidate Med Sci (diss) -- "On the clinical treatment of paraphrenic (fentastic-paranoid) schizophrenia". Moscow, 1959. 15 pp (Min Health USSR, Central Inst for the Advanced Training of Physicians), 200 copies (KL, No 22, 1959, 123)

NADZHAROV, R.A.; SHUMSKIY, N.G.

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

Differential diagnosis between schizophrenia and cyclothymia; sluggishly developing schizophrenia and cyclothymia; with an obsessional syndrome. Vop. psikh. no. 3:184-197 '59.

(MIRA 13:10)

(SCHIZOPHRENIA) (MANIC-DEPRESSIVE PSYCHOSES)

SHTERNBERG, E.Ya.: SHUMSKIY, N.G.

Various forms of depression in old age. Zhur.nevr.i psikh. 59 no.ll: 1291-1298 '59. (MIRA 13:3)

1. Institut psikhiatrii (dir. - prof. D.D. Fedotov) AMN SSSR, Moskva. (DEPRESSION in old age)

NADZHAROV, M.A.; SHUMSKIY, N.G.

Latent epilepsy. Vop. psikh. no.4:90-105 160. (MIRA 15:2)

(EPILEPSI)

BORINEVICH, V.V.; GOFMAN, A.G.; SHUMSKIY, N.G. (Moskva)

Methodology of supporting antabuse treatment under the conditions of a spychoneurological dispensary. Trudy Gos. nauch.-issl. inst. psikh. 38:306-317 163 (MIRA 16:11)

MOROZOVA, T.N.; SHUMSKIY, N.G.

Endogenous depressions and external factors. Zhur. nevr. i psiky. 63 no.10:15:15:1521 163. (MIRA 17:5)

《四部的时代》中国的大型的对数型的企业,在1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间

l. Kafedra psikhiatrii (zav. - prof. A.V. Snezhrevskiy) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220005-1"

LEYBOVICH, F.A.; SHUMSKIY, N.G.

Clinical and electroencephalographic studies on aged patients with cyclic depression. Zhur. nevr. i psikh. vol. 64 no.5:746--754 164.

(MIRA 17:7)

1. Institut psikhiatrii AMN SSSR i kafedra psikhiatrii TSentral'nogo instituta usovershenstvovaniya vradhey, Moskva.

SHOURIF, N.A.

Libration of folia recognition (libration of doubles, Capping)

it. Esdedie polkhietrii Trentrillogo insibuta usoversmonikiuminye vreek p. Hoskva.

· Entrangment of the tensor of the second of

SHUMSKIY, N.G.

Some most frequently encountered pictures of circular depressions in old age. Ziur. nevr. i psikh. 65 no.4:558-566 165.

(MERA 18 5)

1. Kafedra psikhiatrii (zaveduyushchiy - prof. V.M. Morezov) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

SHUBITY, D. P.

"Investigations of the Characteristics of a Flat Valve of the Nozzle-Flap Type."

report presented at the Scientific Seminar on Pneumo-Hydraulic Automation, 28-29 May 1957, at the Inst. for Automation and Remote Control (IAT) Acad. Sci. USSR.

Avtomika i Telenakhanika, 1957, vol. 18, No. 12, pp. 1148-1150, (author SEMIKOVA, A. I.)

nar pon mattoy mattoy mattoy mattoy mattoy mattoy mattoy in a to it in a care in a car	NO THAT THE Y DAME	Akademlya mauk SSSR, Institut avtomatiki i telemekhaniki. Seminar po pnevmogidravilcheskoy avtomatike. 1st, Moscow, 1957 Stefany, ustroystva i elementy pnevmo-1 gidroavtomatiki. Generik Rhaumatic and Hydraulic Circuits Devices, and Elements in Automation: (Collection of Paper) Moscow, Ind-vo Ak SSSR, Automation: (Collection of Paper)	Besp. Ed.; M. A. Ayzarnan, Doctor of Technical Sciences, Professor: Ed. of Publishing House, Doctor of Technical Sciences, Professor: Ed. of Publishing House, A. Tal; Tech. Ed.: T. P. Polyakova Ed. of Publishing House; In the ded for scientific research workers and engineers in the field of design and construction of pneumatic and hydraulic equipment and accessories for automaticn. GOVERAGE: This collection contains papers read at the Seminar on Phenamatic and Hydraulic obvices for Automaticn, Hay 28, 1957; The collection is divided into the following three groups: I) from any developed pneumatic and hydraulic data hydraulic data to the relating units, transmitters and hydraulic data can hydraulic developes, actuating methansas, special-purpose devices,	and auxiliary equipment and 3) eterents of phenatic and nyd- realist devices for automation, such as controlled and peranent norzies and dispiragas. No personalities are mentioned. Refer- ences follow several of the papers. Andressa, Ye. A. Moscowy. Calculating the Static Character. This paper dana with a theoretical analysis of back-pressure type elements. Plow of fluid, pressure distribution on plates, and general characteristating and distribution on plates, and several characteristating sections and theoretical Shumaly HP. Moscowy. Besuits of Experimental and Theoretical theoretical services of back-pressure free Control Devices	Boggehera, A.V. Ansacad. High-velocity Laminar Air Flow in 194. Flat Capillary Charmels This capillary Charmels This paper discusses air flow in flat capillary charmels at varying persaures. The flow rate is experimentally investigated and results shown graphically. Giver its to be used for determining resistance occfficients and flow rates are presented. Kichin, I. N. Afascowd. Nozzle Clogging and Methods of Combuting Life tendency of certain working fluids toward nozzle and elit clogging is examined. Minimum dimensions of nozzle and alt sections at which the fluid flow rate remain stable are determined. Some practical sethods of combating clogging are determined to combating clogging are determined.	Afgnaryaw W.W. Hoscoyl. On Variation of Effective Areas of Pabric Diaphragms Changes in the magnitude of effective areas of corrugated diaphragms during the stroke are analyzed and their algulicannos in the design of a KETSMA pneumatic regulator discussered. Magh. Xu. L.y. and G. P. Sizdanov Moscowl. Investigation of Characteristics of Diaphragms Used in Sensitive Elements of Begulators of Characteristics of Tubberized-fabric diaphragms made from Characteristics.	various macriats are discussed. The amount of injectors is relation to the stroke and the influence of the temporature of the surrounding medium are investigated. Test results oberyllium-bronze disphragms are presented.
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Supervities: "Easte Series! Fundamentals and Nathada of Designing Orain Elevators."
The second Technological Fundamentals and Nathada of Designing Orain Elevators."
The second Technology of the Food Endoctor, 17 Jun 27.

30: Vacherovata Naslyn, Jun, 1927 (Project #17930)

SHUMSKIY, O.D., dots., kand. tekhn. nauk.

Organization of the storing and processing of grain in the Chinese People's Republic. Trudy MTIPP no.7:126-141 '57. (MIRA 10:12) (China--Grain--Storage) (China--Grain milling)

PROPERTY THE PROPERTY OF THE P

VORONTSOV, Oleg Samoylovich, dots., kand. tekhn.nauk; Priniali uch.: SHUMSKIY, O.D., dots. kand. tekhn. nauk; CHERNILOV, L.O., inzh., prepodavatel; RYSIN, P.I., prepodavatel; TARUTIN, P.P., starshiy nauchnyy sotr., kand. tekhn. nauk, red.; KRIVYAKIN, B.I., red.; GOLUBKOVA, L.A., tekhn. red.

建设设计划建筑的设计区域与大型设计区域的设计区域的设计区域

[Elevators, granaries, and grain processing enterprises] Elevatory, sklady i zernopererabatyvaiushchie predpriiatiia. Pod red. 0.D. Shumskogo i P.F.Tarutina. Moskva, Izd-vo tekhn. i ekon. lit-ry po voprosam khleboproduktov. Pt.1. [Types, constructional features and operation] Tipy i konstruktsii sooruzhenii i ikh ekspluatatsiia. 1961. 269 p. (MIRA 14:8)

1. Novocherkasskiy elevatornyy tekhnikum (for Chernilov). 2. Moskovskiy politekhnikum (for Rysin) (Grain elevators) (Flour mills)

Testing the line of sighting at zero settings. Voen. vest. 42 no.8:109 Ag '62. (Mortars (Ordnance))

SHURGKIY, P. A.

"Contemporary Glaciation of the Soviet Arctic," Voprosy Geografii, 4th Symposium, 1947.

лимант, г. а.

SHUMSKIY, P. A. Energiia oledeneniia i zhizn' lednikov. Moskva, Geografgiz, 1947. 58 p. DLC: Unclass.

SO: LC, Soviet Geography, Part I, 1951, Uncl.

Translation: "The Power of Glaciation and the Life of Glaciers"

Jilliamii, I. A.

USSR/Geophysics - Ice Formation

1 Nov 53

"Problem of the Passive Orientating Effect of a Solid Base Upon Growing Crystals," P. A. Shumskiy, Inst of Frost Science im Obruchev, Acad Sci USSR

DAN SSSR, Vol 93, No 1, pp 51-54

Describes ordering progress of crystals, in particular, ice setting upon a solid base, as e. g. wall of cracked glacier. Finds a relation between temp of base during crystallization and type of orientation of growing ice crystals which

275**T6**0

facilitates the establishment of temp of ores during ice formation. Presented by Acad V. A. Obruchev 7 Sep 53.

SHUMSKIY, P.A. doktor geograficheskikh nauk

Microscopic research method for the structure of frozen ground. Mat.po lab.issl.mersl.grunt. no.2:111-124 54. (MIRA 8:8)

1. TSentral'naya laboratoriya Instituta merzlotovedeniya Akademii nauk SSSR.

(Frozen ground)

SHUMSKIY, P.A., doktor geograficheskikh nauk

Directions for determining pressure of gases occluded within ice.

Mat.po lab.issl.merzl.grunt. no.2:215-231 '54. (MIRA 8:8)

1. TSentral'naya laboratoriya Instituta merzlotovedeniya Akademii nauk SSSR. (Ice)

CONTRACTOR DATE OF THE STATE OF	
SHUMSHIY	e_{A}
	USSR.
	6.4-265 551.574.1 551.311.1 548
	Shumshil, P. A., Stoenie prirodnykh I'dov. [Structure of natural ice.] Vsesoiuenoe Geograficheskoa Obshchestvo, Ienestiiu, 86(1):20-33, Jan. Feb. 1954. 4 figs. DIC-The author
	considers the mineralogical and crystallographic characteristics of ice, the growth of ice crystals and the formation of ice in relation to waters of origin, a comparison between ice formed in
	the free atmosphere and that which forms on solid surfaces, the petrographic study of ice and the properties and types of congelated ice. Subject Headings: 1. Ice formation 2. Ice crystal
	growth 3. Crystallography I.L.D.
	보는 이 보고 하다 하는 것으로 함께 하는 것을 하면 가장이 되었다. 그는 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
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SHUMSKIY, P. A.

"Problems & Methods of Glaciological and Geocryological Studies"
U.S. National Committee, IGY, National Acad. of Sci., Sept. 55

SHUMSERY, A	5/5 621.325 .351	
Osnovy strukturnogo ledoveleniya; petrografiya presnego l'da kak netod glyatsiologicheskogo issledovaniya (principles of structural glaciology) Moskva, Izd-vo Akademii Mauk SSSR, 1955 491 p. illus., diagrs., tables. At head of title: Akademiya Mauk SSSR. Institut Merzlotovedeniya. "Literatura": p. 468-(477)		

JSSR/ Geogra Card 1/1	phy - Arctic Ocean Pub. 124 - 5/45
Authors	Shumskiy, P. A., Dr. of Geogr. Sc.
Title	Study of the ice of the northern Arctic Ocean
Periodical	• Vest. AN SSSR 2. 33-38, Feb 1955
	 Vest. AN SSSR 2, 33-38, Feb 1955 Scientific data are presented on the strength, structure, age. history of formation and distribution of ice in the northern parts of the Arctic Ocean. The data were collected by special expeditions of the Arctic Institute of the Academy of Sciences USSR during a period of many years of research work. Table; drawing.
Periodical Abstract Instruct	Scientific data are presented on the strength, structure, age, history of formation and distribution of ice in the northern parts of the Arctic Ocean. The data were collected by special expeditions of the Arctic Tratitute of the Academy of Sciences USSR during a period of many years

SHUMSKIY, P.A.

USSR/ Physics - Ice crystals

Pub. 86 - 26/38 Card 1/1

Stempnevskiy, V. M., Cand. Tech. Sc.; and Shumskiy, P. A., Dr. Geog. Sc. Authors

Spiral crystals of ice Title

Periodical : Priroda 44/7, 113 - 114, Jul 1955

An instance is related of a spiral formation of ice in November of 1953 on a pond near a railway station 40 km from Moscow. An explanation is Abstract

offered of the mechanics of this odd formation. Illustration.

Institution:

Submitted

Jeographical observations in an Antarctic "oasid". (In Hussian)
Hoscow, U.S.S.R. Acad, Lei., 1976, 69p., map.

AVSYUK, G.A.; MARKOV, K.K.; SHUMSKIY, P.A.

Cold desert in the Antarctic. Izv.AN SSSR.Ser.geog.no.4:16-25 J1-Ag (MIRA 9:10)

1.Institut geografii Akademii nauk SSSR, Institut merzlotovedeniya Akademii nauk SSSR, Geograficheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.

(Antarctic regions)

SHUMSKIY P.A. doktor geograficheskikh nauk.

Glaciological and geocryological studies in the Antarctic (first results of 40-day reconnaissance). Vest. AN SSSE 26 no.9:27-35 S '56.

(Antarctic regions--Ice)

AVSYUK, G.A.; MARKOV, K.K.; SHUMSKIY, P.A.

Geographic observations in an Antarctic "oasis." Izv.Vses.geog.
ob-va 88 no.4:316-350 J1-Ag '56.

(Antarctic regions--Physical geography)

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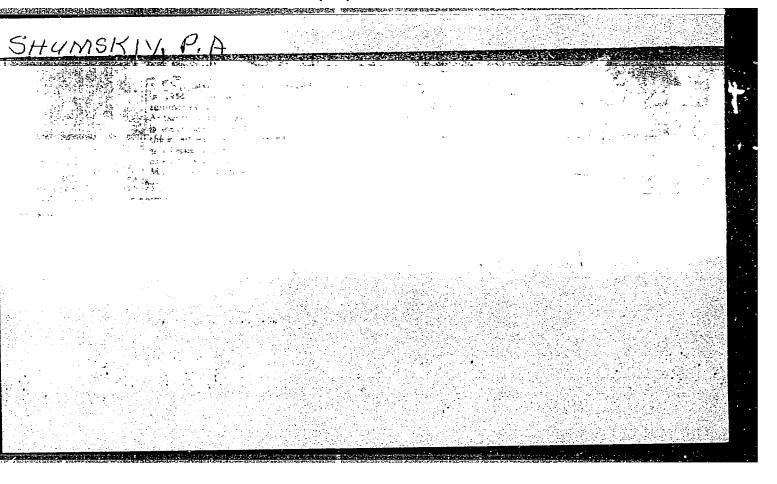
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	No additional contributors mentioned	1		
•	FURFORE: This booklet is intended for hydrologists and civil engineers.			
	COVERAGE: This collection of abstracts covers reports presented at the 1 General Assembly of the International Union of Geodesy and Geoghysics hydrological, erosional, and glaciological processes. Studies relate problems of underground waters, snow, and rivers are also discussed. the abstracts are in Russian, with English or Frusch trusclations. Ing in English are designated by a single asterials; those in Frusch by	on ♣ to ~		
	Card 1/4			
	, Silin-Bekchurin, A.I. Types of Hydrochemical Heps in Hydrogeology*	63		.
	Churinov, M.V. Hydrological Maps and Their Importance in Evaluating the Water-Bearing Capacity and Reserves of Underground Stater *	71	•	
	Aveyuk, G.A. Glaciological Studies in the UNIX *	74		
	Sulakvelidae, G.K. Physical Properties of a Saow Cover	81		
	Shretsov, P.P. Subject and Besie Problems in Geoglacialogy in the tage	85		1
	Shunskiy, P.A. Basic Problems in Hotern Clasicology in the Light of Problems Studies by Seviet Scientists *			- 1
	Armani, D.L. Problems in the Study of Bronien Processes on the Twrnitory of the Unit .			
	AVAILABLE: Library of Congress (28653-Ayr)	95		
	Care 4/8			

TSYTOVICH, N.A.; NERSESOVA, Z.A.; BOZHENOVA, A.P.; TATYUNOV, I.A.; DOSTOVALOV, B.N.; SHUMBKIY, P.A.; BAKULIN, F.G.; SAVEL'YEV, B.A.; ZHUKOV, V.F.; MARTYNOV, G.K.; VYALOV, S.S.; SHUSHERINA, Ye.P.

والمواتق والمهوالي

Physical phenomena and processes in freezing, frozen, and thawing soils; general comments. Mat. po lab. issl. mersl. grunt. no.3:7-(MIRA 10:11) 114 '57. (Frozen ground)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220005-1"



SHUFCKIY. P.A. doktor geograficheskikh nauk.

Investigation of the glacial cover of the Anterctica. Priroda 46 no.7:84-87 71 157. (TIPA 10:8)

1.Antarkticheskaya ekspeditsiya Akademii nahr WSSR, Mirnyy. (Antarctic regions-Glaciers)

SHUMSKIY, Petr Aleksandrovich; GRAVE, N.A., doktor geograf.nauk, otv. red.; KONDRAT'YEVA, V.I., red.; VOYTKOVSKAYA, Ye.M., red.; PARNIKOV, Ye.S., tekhn.red.

[An outline of the history of the study of ground ice] Ocherk istorii issledovaniia podzemnykh l'dov. IAkutsk, IAkutskoe izd-vo, 1959. 52 p. (MIRA 13:4)

(Frozen ground)

21.

sov/30-59-2-22/60

AUTHOR: Shumskiy, P. A., Doctor of Geographical Sciences

TITLE: News in Brief (Kratkiye soobshcheniya)

MANAGEMENT IN THE PROPERTY OF THE PROPERTY OF

Symposium of the Committee for Snow and Ice of the International Association for Scientific Hydrology (Simpozium Komissii snega

i l'da Mezhdunarodnoy assotsiatsii nauchnoy gidrologii)

PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 2, pp 79-80 (USSR)

ABSTRACT: The Symposium was held in the small town of Chamonix (Shamoni)

in the French Alps on the foot of the Montblanc from September 16 until September 24, 1958 and dealt with problems of the physics of ice movements in glaciers. Scientists from 15 countries took part who heard and discussed 42 scientific reports,

7 of which were delivered by the Soviet delegation. Among other scientists, V. N. Bogoslovskiy (USSR) reported on the relation between temperature conditions and glacier movement. Problems of organization of the further work in this field were discussed and it was decided to hold such a Symposium every 3 years. Finally the author states that the work was

very fruitful and carried out in a friendly atmosphere. The

Card 1/2 members of the Soviet delegation met the members of the other

sov/30-59-2-22/60

News in Brief. Symposium of the Committee for Snow and Ice of the International Association for Scientific Hydrology

delegations very frequently at unofficial occasions. They visited the Geophysical Institute and the office of weather forecasting in Paris.

Card 2/2

CIA-RDP86-00513R001550220005-1 "APPROVED FOR RELEASE: 08/23/2000

3(7) AUTHOR:

Shumskiy, P. A.

SOV/20-126-4-21/62

TITLE:

The Density of Glacier Ice (Plotnost' lednikovogo l'da)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 4,

pp 767 - 770 (USSR)

ABSTRACT:

In the introduction, the coefficient of compression, the average expansion coefficient, density at a pressure of 1 at, and the air inclusion are given according to the Boile-Mariotte law of glacier ice, and it is found that calculation of the density of this ice in an arbitrary glacier is possible only if the processes of expansion and compression of the ice take place elastically, and that its density depends only on external pressure and temperature. Basing upon these assumptions, formula (4) is developed for the density of the ice, and for depth, which belongs to a certain pressure, formula (5) is given. A diagram (Fig 1) shows two curves of the variation of density with depth, which were calculated according to the above formulas, for different initial densities (on the surface). A further diagram (Fig 2) shows the variations of density for ice, on the condition of equilibrium being established

Card 1/3

CIA-RDP86-00513R001550220005-1"

APPROVED FOR RELEASE: 08/23/2000

The Density of Glacier Ice

SOV/20-126-4-21/62

between the pressure of the enclosed air and the pressure of the layers of ice above it, and further also for snow, glacier snowfields, and ice within the range of the feeding of polar glaciers, and for ice within the range of ablation. The demand made in the introduction to this paper that compression and expansion be elastic is only for the case in which storage and melting of the ice do not take place too rapidly. If storage and melting proceed too quickly, the density distribution in the ice must be determined empirically. As an ansatz for the development of an empirical formula, the parabolic partial curve of n-th degree is taken (6), with the aid of which the dependence of density on depth may be approximated. Further, the dependence of pressure on depth is given by formula (7). Formulas are further given for the gradient of ice condensation with depth, compression at a given depth, for the gradient of relative compression, and further the age of the ice, the sinking-in rate of the ice, the rate of condensation and relative compression, as well as the gradient of the variation of penetration rate with depth. There are 2 figures.

Card 2/3

The Density of Clacier Ice

SOV/20-126-4-21/62

PRESENTED: January 19, 1959, by V. V. Shuleykin, Academician

SUBMITTED: January 17, 1959

Card 3/3

SHUMSKIY, P.A.; KARTASHOV, S.N.; KOTLYAKOV, V.M.; AVSYUK, G.A., otv.red.; OGANOVSKIY, P.N., red.

[Second Antarctic Continental Expedition; snow cover] Vtoraia Kontinental naia Antarkticheskaia ekspeditsiia; snezhnyi pokrov. Moskva. (Materialy glistsiologicheskikh issledovanii). No.4. [Field investigations in the zone of katabatic winds at the Vostok-I and Komsomolskaya Stations] Marshrutnye issledovaniia v zone stokovykh vetrov, na st.Vostok-I i na st. Komsomol'skaia. 1960. 123 p. (MIRA 14:3)

 Akademiya nauk SSSR. Institut geografii. (Antarctic regions--Snow)

TRESHNIKOV, Aleksey Fedorovich, kand.geograf.nauk. Prinimali uchastiye:
MATVEYCHUK, Georgiy Ivanovich; CHUPIN, Nikolay Petrovich; ARALOV,
Dmitriy Petrovich; TIKHOMIROV, Igor' Ivanovich, vrach-stomatolog;
MANSUROV, Sergey Mikhaylovich; KRICHAK, Oskar Grigor'yevich, kand.
geograf.nauk; SHUMSKIY, Petr Aleksandrovich, doktor geograf.nauk;
SHESTERIKOV, Nikolay Pavlovich, mladshiy nauchnyy sotrudnik, gidrolog. DROZHZHINA, L.P., tekhn.red.

[Second Continental Expedition, 1956-1958; general description]
Vtorais kontinental nais ekspeditsiis, 1956-1958 gg.; obshchee opisanie. Pod red. A.F.Treshnikova. Leningrad, Izd-vo Morskoi transport, 1960. 205 p. (Sovetskaia antarkticheskaia ekspeditsiia, no.8).

(MIRA 13:7)

l. Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledovatel'-skiy institut. 2. Nachal'nik Vtoroy kontinental'noy ekspeditsii (for Treshnikov). 3. Zamestitel' nachal'nika Vtoroy kontinental'noy ekspeditsii po administrativno-khozyaystvennoy chasti; nachal'nik beregovoy bazy (for Matveychuk).

(Continued on next card)

TRESHNIKOV, Aleksey Fedorovich --- (continued) Card 2.

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4. Glavnyy inzhener Vtoroy kontinental'noy ekspeditsii (for Chupin).
5. Nachal'nik otryada svyazi i radionavigatsii Vtoroy kontinental'noy ekspeditsii (for Aralov). 6. Starshiy vrach Vtoroy kontinental'noy ekspeditsii (for Tikhomirov). 7. Nachal'nik geofizicheskogo otryada Vtoroy kontinental'noy ekspeditsii (for Mansurov). 8. Nachal'nik aerometeorologicheskogo otryada Vtoroy kontinental'noy ekspeditsii (for Krichak). 9. Nachal'nik glyatsiologicheskogo i vnutrikontinental'nogo otryada Vtoroy kontinental'noy ekspeditsii. 10. Nachal'nik otryada pribrezhnoy gidrologii Vtoroy kontinental'noy ekspeditsii (for Shesterikoy).

(Antarctic regions--Russian exploration)

SHUMSKIY, P.A., doktor geograf.nauk, red.; KAPLINSKAYA, L.G., red.; KOTLYAKOVA, O.I., tekhn.red.

[Second Continental Expedition, 1956-1958; glaciological research] Vtoraia kontinental naia ekspeditaiia 1956-1958 gg.; gliatsiologicheskie issledovaniia. Pod red. P.A. Shumskogo. Leningrad, Izd-vo "Morskoi transport," 1960. 365 p. (Sovetskaia antarkticheskaia ekspeditsiia, no.10).

l. Leningrad. Arkticheskiy i anterkticheskiy nauchno-issledovatel'skiy institut.
 (Anterctic regions--Glaciological research)

SHUMSKIY, P.A., doktor geogr. nauk, red.; KAPLINSKAYA, L.G., red.; KOTLYA-KOVA, O.I., tekhn. red.

[Materials of the Soviet Anterctic Expedition] Trudy Sovetskoi antarkticheskoi ekspeditsii, 1955-. Leningrad, Izd-vo "Morskoi transport." Vol.10. [Second Continental Expedition, 1956-1958; glaciological research] Vtoraia kontinental naia ekspeditsiia, 1956-1958 gg.; gliatsiologicheskie issledovaniia. Pod red. P.A. Shumskogo. 1960. 365 p. (MIRA 14:12)

1. Sovetskaya antarkticheskaya ekspeditsiya, 1955-. (Antarctic regions--Glaciological research)

s/169/61/000/010/019/053 D228/D304

AUTHORS:

Lasarev, G. Ye., and Shumskiy, P. A.

TITLE.

Preliminary results of gravimetric determinations of the

ice-sheet thickness

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 10, 1961, 55, abstract 104364 (V sb. Sov. antarkt. ekspeditsiya, 10,

L., Morsk transport, 1960, 96-100)

TEXT: The data and procedure are given for determining the ica thickness by a gravimetric method via the comparison of gravity anomalies with the data on the depth of the ice floor obtained by means of seismic surveying and drilling. The plan position of the gravimetric stations and the radial profile of the ice sheet in the Mirnyy-Vostok area from the data of 1957 are cited. It is noted that the sub-ice surface of the central part of Eastern Antarctica has a bowl shape, the edge of the ice sheet extruding seawards for 200 km. The existence of a latitudinal range under the ice is postulated in an area of 220 - 300 km. The greatest

Gard 1/2

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S/169/61/000/010/019/053 D228/D304

Preliminary results of

thickness of the ice sheet was noted 40 km to the north of the Vostok station and was equal to approximately 4700 m, the floor of the ice in this area being located almost 1250 m below sea-level. The analysis of errors in the gravimetric method for the original data in question was made with certain a priori assumptions. The errors do not exceed 100 m. 8 references. / Abstracter's note: Complete translation./

Card 2/2

YEFIMOV, A.I.; SHUMSKIY, P.A.

Ground ice in the environs of Krest-Khal'dzhay on the Aldan River. Mat. k osn. uch. o merz. zon. zem. kory no.5:15-40 60.

(MIRA 13:10)

(Krest-Khal'dzhay region--Frozen ground)

5/169/61/000/008/014/053 A006/A101

AUTHOR:

Shimskiy, P. A.

TITLE:

Basic results of investigating the Antarctic ice cover

PERIODICAL: Referativny; zhurnal, Geofizika, no. 8, 1961, 70-71, abstract 8V534 (W st. "Sov. antarkt. skspeditsiya, 9," Leningrad, "Morsk.transport",

1960, 126-170)

The author presents basic, mainly qualitative conclusions, obtained TEXT: after the selective processing of scientific materials submitted by the glaciological team operated under the author's supervision on the Antarctic continent during 1956-57. The conclusions are grouped by sections. In section one "morphology of the ice cover and the relief of the ice bed" data are discussed on the surface height and thickness of the ice cover (determined by the seismic method) over the radial profile from the Davis Sea to the Vostok station, at 172 points on the whole. The data are summed up in a table). Data are also presented on the relief of the ice cover bed and on the morphology of the proper ice cover. It depends mainly on the basic ice movement, which equilibrates more or less the arrival and break-up of the ice under concrete conditions of the under-

Card 1/3

5/169/61/000/008/014/053 A006/A101

Basic results of investigating ...

lying surface relief. In section two the author analyzes heat exchange processes separately for surface layers of the ice cover, internal sections of the ice cover and upper layers of the earth crust. These processes form the temperature conditions of the aforementioned layers. Systems of differential equations are given which are characteristic of heat and mass exchanges and make it possible to determine the temperature field in a snow-firm layer (compiled by V. N. Bogoslovskiy); formulae are also presented which show the connection between the mean annual temperature of the ice cover surface and the temperature of layers undermeath the level of penetration of seasonal temperature variations; the formulae show also the dependence of the mean surface temperature on the distance from the sea coast and the absolute height. The section contains 6 distribution curves of temperature over a dapth of 40 - 400 m. In section three "the snow cover and glacier feed" data are given on the distribution of feed of the Antaretic ice cover over the height and depending on the distance from the sea coast. Section four contains an analysis of processes of the formation and structure of upper ice cover layers. An equation is given for the thickness of snow describing the correlation of the volumetric weight, the depth of the layer and the pressure of vertical layers; another equation (derived by F. A. Shumskiy) for the ice thickness shows also the correlation of the volumetric weight, the depth

Card 2/3

Basic results of investigating ...

S/169/61/000/008/014/053 A006/A101

of the layer and the pressure of overlying layers and temperature. It is mentioned that formulae were derived to calculate the age of snow, firm and ice at any depth, the speed of their sinking, packing and compression at any depth, and also the gradients of increment of the pressure, packing and compression with the depth. Section five "deformation of ite and the structure of depth sections of the ice cover" is mainly based on experiments on the deformation of ice with investigations of its structure prior to and after deformation. "Movement of the ice cover" is discussed in section six and is based on a theory developed by P. A. Shumskiy. Basic equations are given of the ice cover movement, and their analysis is presented. In the conclusive section the author deals with some problems of geological activity, history and contemporary evolution of glaciation.

I. Nekrasov

[Abstracter's note: Complet translation]

Jard 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220005-1"

SHUMSKIY, P.A.

Origin of ground-ice wedges. Trudy Inst.merz1.AN SSSR 16: 81-97 '60. (MIRA 13:4) (Arctic regions--Frozen ground)

BUGAYEV, V.A., prof., otv. red.; SHUMSKIY, P.A., prof., red.; GUSEV, A.M., prof., red.; LAPINA, I.Ya., red.; MEL'NIKOVA, N.B., red. izd-va; GOLUB', S.P., tekhn. red.

[Antarctica; reports of the commission] Antarktika; doklady komissii 1960. Moskva, Izd-vo Akad.nauk SSSR, 1961. 85 p. (MIRA 14:12)

1. Akademiya nauk SSSR. Mezhvedomstvennaya komissiya po izucheniyu Antarktiki.

(Antarctic regions)

SHUMSKIY, P. A.

"Glaciology of the Antarctica."

To be submitted for the 10th Pacfic Science Congress, Honolulu, 21 Aug - 6 Sep 1961.

Institute of Permafrost Studies.

SHUMSKIY P.A.

PHACE I IN ON EXPLOTIATION

307/5034

Absorbly a neak SSSR. Institut meralatovedeniya

The Armeniya 10 finike i makhanike reralykh gruntev (Investigations in Fritanround Payaina and Machanica) no. 4, Moseaw, 1961. 251 p. Errata slip Desented. 1500 cupies printed.

Op resides Agreey: Akademiya nauk SSSR. Institut merzlotowideniya im.

Pour. Eds.: Z. A. Hersessva and H. A. Tayarvich; Ed. of Publishing House: E. H. Mik Cayeva; Tech. Ed.: V. V. Volkova.

Mission: This collection of articles is intended for geocryplogists and equicalty-mats.

C WEGGE: The collection was written by staff rembers of the Institut meraletewedeniys, AP SSSR -- Institute of Permafrost Studies, AS USSR -in the basis of their scientific research work conducted at the Laboratory of Physics and Mechanics of Frezen Grand. The articles in the first part Cand Sys

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	ways tob, u. A. Foresterd SECTION I		
	86011577	7	
	Tydy www, I. A. Water Migration in Soils More for, Z. A. Influence of Exchange Cations on Meisture Migration and Grand dearing During Prooring	7 22	
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Investigations in Frazen-Ground Physics (Cont.) SOV/5834	L
Shumskiy, P. A. Mechanics of Ice Deformation and Recrystallization	129
Tyalor, S. S. Viscous-Plastic Flow of Ice Sheets and Certain Regularities in the Deformation of Ice	138
Tegerer, R. Te. Congelation Forces Between the Base and Frezen	156
Takanakaya, N. K. Shear Resistance of Permafrost Ground of Varying Texture and Intensity of Freezing	166
Originalyses, V. K. Investigation of Tixotropic and Structural-Mechani From this of the Workuta Pelitic Leams	187
hyprogram, I. A. Engineering-Seclogical Properties of Fermafrost Rockin the Region of the "Mir" Pipe	cs 21.6
Febauskaya, M. K. Problems of the Strength of Frezen Ground	242
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Card a/4	MM/rsm/mas 1-16-62

\$/169/61/000/012/044/089 D228/D305

CONTROL OF THE PROPERTY OF THE

AUTHORS:

Shumskiy, P. A. Kotlyakov, V. M., and Yevteyev, S. A.

surface is oval; it is described by the formula:

Forester 1982 - Professor Francis (1981) - Francis (1981)

TITLE:

The glacier dome of Drigal'skiy Island

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 12, 1961; 62, abstract 12V438 (V sb. Glyatsiol, issledo. vaniya. no. 6. M., AN SSSR, 1961, 45-69)

The dome of Drigal'skiy Island (D) has been studied during four Soviet Antarctic expeditions. D lies on a submarine bank whose depth is 65 - 70 m and has a circular outline. Its area is 204 km², the highest point is 327 m above sea-level, and the average ice thickness is 300 m. The coast is an ice scarp with a height of 23 - 46 m. On the northern slope, the

Card 1/6

S/169/61/000/012/044/039 D228/D305

The glacier dome of

$$\frac{x^2}{a^2} + \frac{H^{1,845}}{b^{1,845}} = 1 ,$$

where x is the distance of a point from the center of D, H is the height of the point, and a and b are the cval's semi-axes. P is supplied as a result of precipitation during cyclone invasions accompanied by strong N E. winds. In addition, a marked role in the alimentation is played by hoarfrost in view of the closeness of the open sea. Thanks to wind transportation, firstly, the accumulation is less than the amount of precipitation, and secondly, there is more accumulation on the S W. tion, and secondly, there is more accumulation on the S W. tieward slope of D than on the N.E. winds and slope. Recalculated in terms of water, the accumulation equals 860 mm at the lated in terms of water, the accumulation equals 860 mm at the count 880 mm at a height of 200 m on the S.S.W, slope, and some the N.N.E. slope. Towards the edge of D on the

Gard 2/6

S/169/61/000/012/044/039 D228/D305

The glacier dome of ...

N.N.E. slope, the accumulation decreases to 130 mm. On an average for the island, it equals 604 mm, or 123 million tons a year. There was little snow in 1958, but much in 1957: 1956 was an average year. From the center towards the edge of D. the density and solidity of the snow increase from 0.37 to 0.45 g/cm³ and from 8.1 to 18.6 kg/cm² respectively. Because of the moist winds, the snow's solidity is greater than on the mainland. Radiational crusts appear on the surface towards the end of winter. The zones of ice-formation shift southwards in accordance with the asymmetry in the accumulation and melting (there is more melting on the northern slope). Above 180 - 250 m. there is a zone of recrystallization and infiltration where 5 - 25% of the annual layer of snow (only the summer snow) is covered by melting; below, there is a cold infiltration zone where melting and firm-formation embrace 55 - 100% of the annual layer of snow. The existence of a zone of infiltration and congelation is possible on the north-east coast. There is a

Card 3/6

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产生产品,不是一种的人的人,但是一种人的人,但是一种人的人,但是一种人的人,但是一种人的人,但是一种人的人,但是一种人的人,但是一种人的人,但是一种人的人,但是

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The glacier dome of

ablation zone, nor is there any liquid run-off. At the center of D, the conversion of snow into ice lasts for about 50 years and is completed at a depth of approximately 60 m, whereas at the edge it is concluded in 30 - 35 years at a depth of 20 25 m. Differences in the winter and summer firm layers are re flected in the ice layering detectable in the ice scarps. The "winter" recrystallized ice is porcus and white its crystals having a complex form. The "summer" infiltrational ice is transparent, blue and pore impoverished, its crystals having ransparent, blue, and pore impoverished, its crystals have he simple form. The growth gradient of crystals with depth is 0.114 mm/m for "winter" ise and 0.055 mm/m for "summer'ice. The crystal axes, of which 60 - 71% have a hearly vertical alignment and 25 - 75% have a hearly longitudinal direction, are remark and 25 - 75% have a nearly longitudinal direction, are remarked at the expense of movement. Only 4% of the crystals have their principal axes aligned in directions close to that have their principal axes aligned in directions close to that the transverse movement. "Winter" are is better regulated than "summer" ice. The movement of ice relative to the center

Card 4/6

\$/169/61/000/012/044/089 D228/D305

The glacier dome of

of D increases towards its periphery from 0 to 30 m/yr. The magnitude of the horizontal acceleration of movement changes in two waves- to which, according to the theory of movement, the waves must correspond in velocity and even in the direction of the change in the height of the surface (a reduction of 115 cm/yr at the edge of D, but an increase of 45 cm/yr at the ice-divide). According to calculations from P. A. Shumskiy's formulas of movement, the discharge force comprises 23% of the whole propellent force, the remaining 77% belonging to the diffuent force. The bed's coefficient of friction grows from thuent force. The bed's coefficient of from the coefficient of the coefficien 0.03 at the center of D to 0.05 at 2 km from the coast and then falls to zero at the sea edge. The glacier's gradient of tapering also correspondingly changes. Laminar movement is unique near the center of D; 1.5 km from its edge, block gliding constitutes 92% of its whole speed, this being practically 100% at the actual edge. The complete change of matter occurs during 1200 years. The expenditure of ice at the expense of movement is 277 million tons per annum, the mass deficit balance being

Gard 5/6

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